

**Regional Education and Research Center on
Earthquake Risk Management and Resilience for West and
Central Asia (RCECWA)
Category 2 Centre under the auspices of UNESCO**

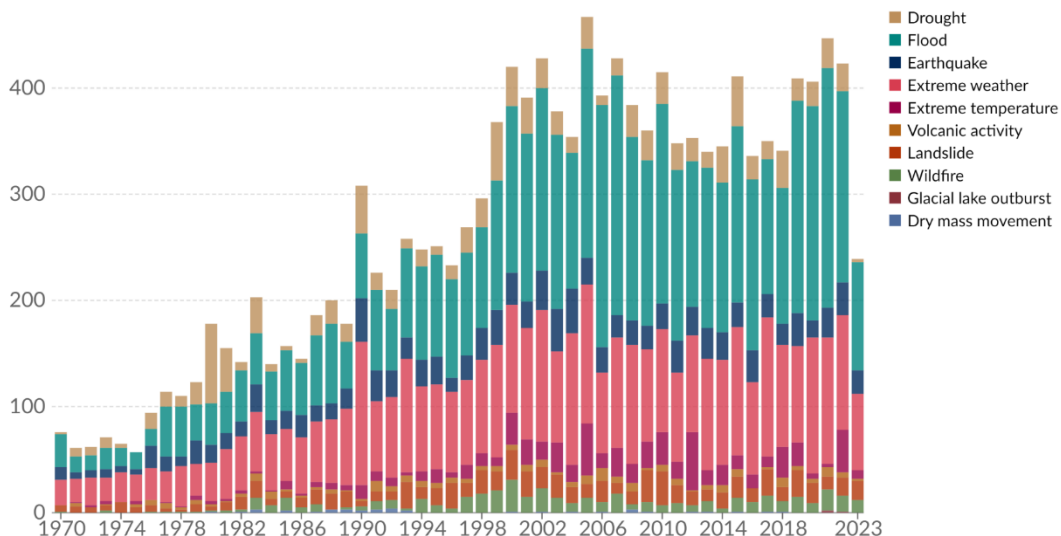
Kambod Amini Hosseini
Director of RCECWA

January 2024
Tehran, Iran

Percentage of occurrences of disasters by type and share of casualties for different disasters

Global reported natural disasters by type, 1970 to 2023

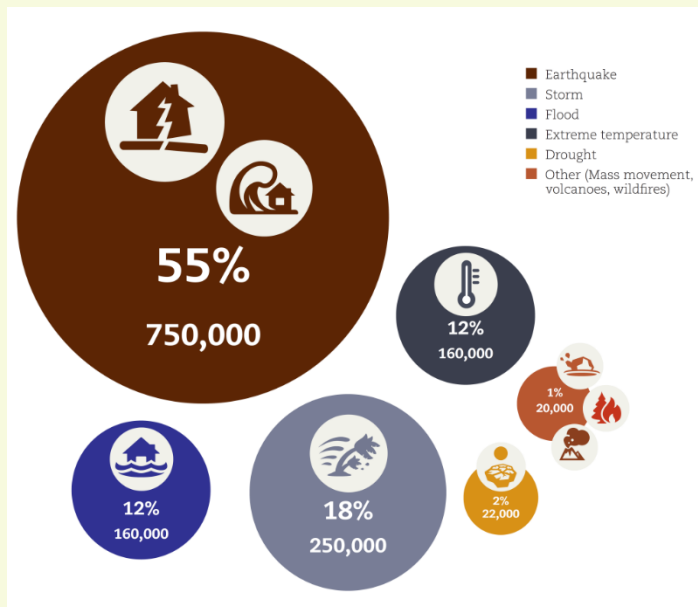
The annual reported number of natural disasters, categorised by type. The number of global reported natural disaster events in any given year. Note that this largely reflects increases in data reporting, and should not be used to assess the total number of events.



Data source: EM-DAT, CRED / UCLouvain (2023)

Note: Data includes disasters recorded up to September 2023.

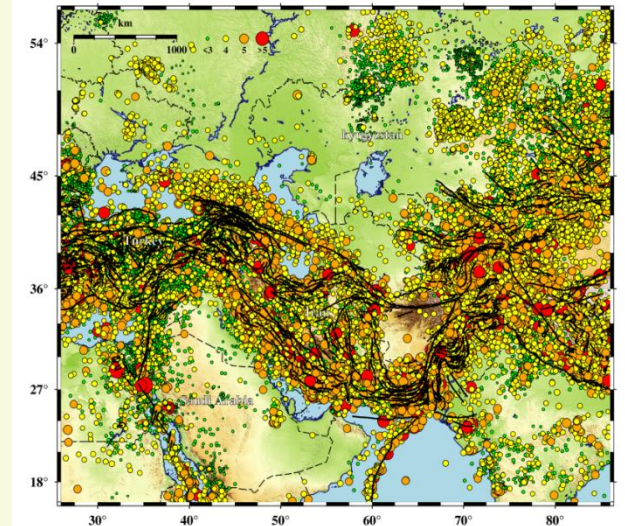
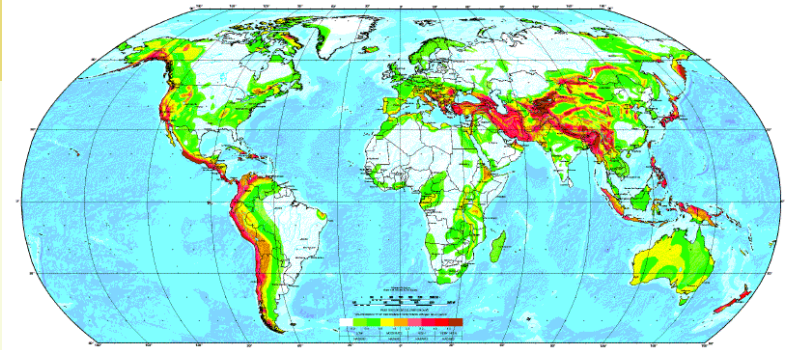
OurWorldInData.org/natural-disasters | CC BY



Some of the recent devastating earthquakes in the region

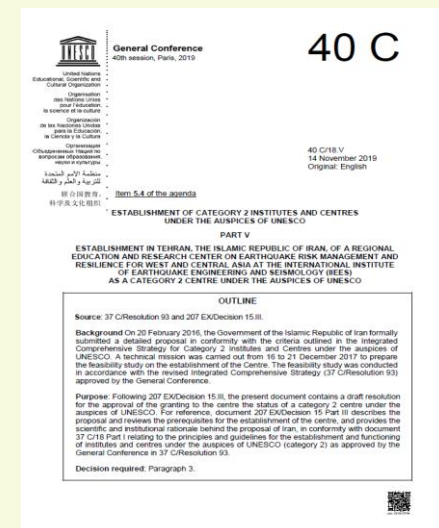
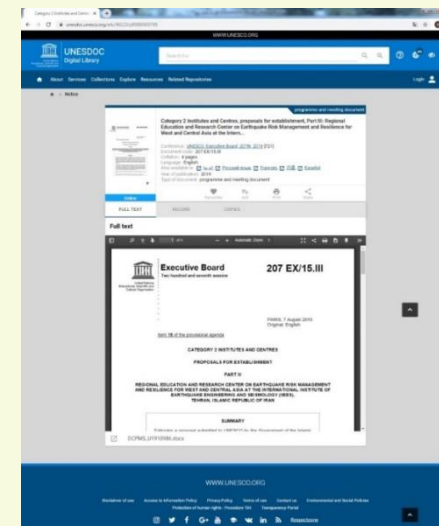
- 2002- AFGHANISTAN (Hindu-Kush)– Magnitude: 7.2
- 2003- IRAN (Bam) – Magnitude: 6.6
- 2004- IRAN (Baldeh) – Magnitude: 6.3
- 2005- PAKISTAN (Kashmir)- Magnitude: 7.6
- 2006- IRAN (Doroud) – Magnitude: 6.1
- 2008- KYRGYZSTAN - Magnitude: 6.7
- 2009- AFGHANISTAN (Hindu-Kush)– Magnitude: 6.2
- 2011- PAKISTAN (Baluchistan)- Magnitude: 7.2
- 2011- TURKIYE (Van)- Magnitude: 7.1
- 2012- IRAN (Ahar) – Magnitude: 6.4
- 2013- PAKISTAN (Baluchistan)- Magnitude: 7.7
- 2015- AFGHANISTAN (Hindu-Kush)– Magnitude: 7.5
- 2015- TAGIKISTAN - Magnitude: 7.2
- 2017- IRAN-IRAQ (Kermanshah)- Magnitude: 7.3
- 2020- TURKIYE-IRAN- Magnitude: 5.7
- 2020- TURKIYE-GREECE (Aegean)- Magnitude: 7.0
- 2022 – PAKISTAN-AFGHANISTAN- Magnitude: 6.0
- 2023- Turkiye-Syria –Magnitude: 7.8
- 2023- AFGHANISTAN (Herat)– Magnitude: 6.3

GLOBAL SEISMIC HAZARD MAP



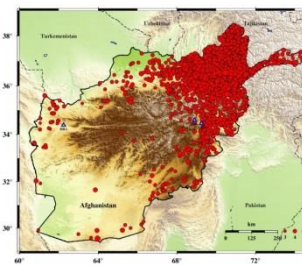
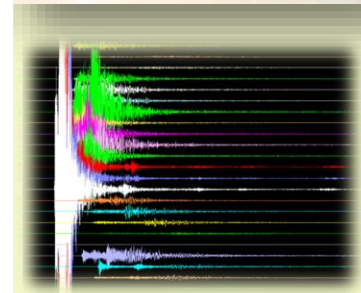
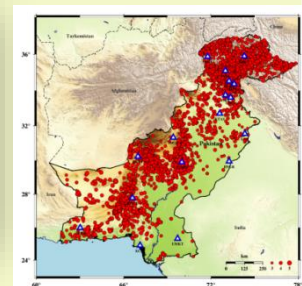
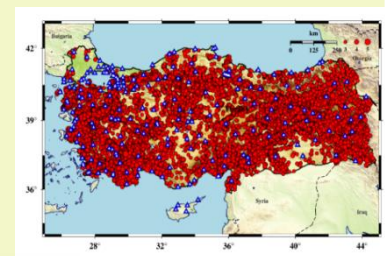
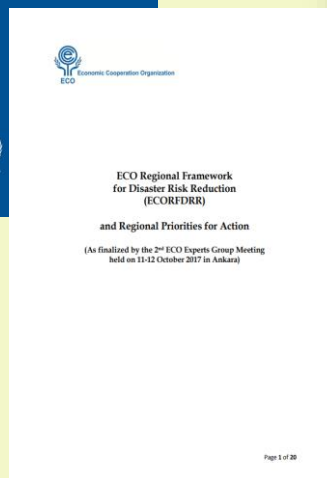
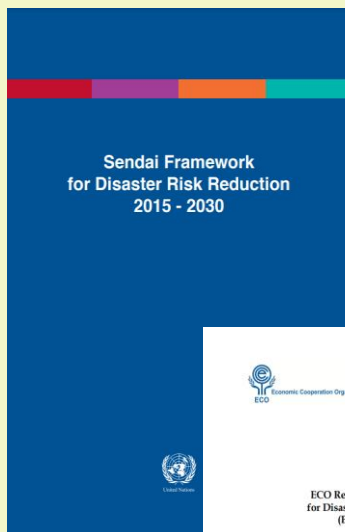
Needs for establishment a regional center to study earthquake risk and resilience and to support the governments for DRR and DRM

- Official request: **Feb. 2016**
- Technical and scientific evaluation: **2016-2019**
- Approval in General Conference of UNESCO: **Nov. 2019**
By consensus, as the 5th Category II Centre on Earth Sciences and 2nd Center on disaster risk reduction, under auspices of UNESCO
- Agreement was signed by Iranian Minister of Science, Research and Technology and Director General of UNESCO on **Feb. 2021**
- Approval by the Iranian Parliament: **January 2023**



Key challenges to be addressed by the Center in DRRM in context of SFDRR

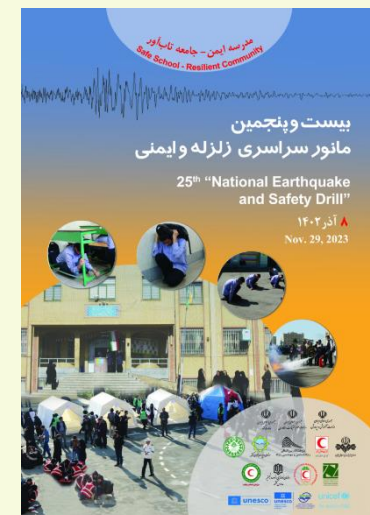
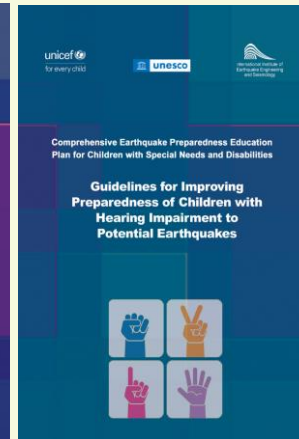
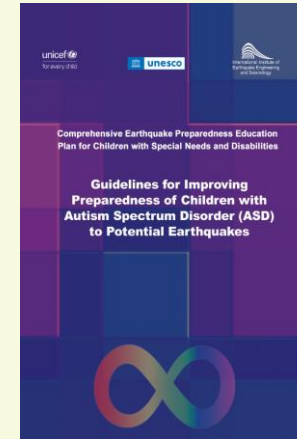
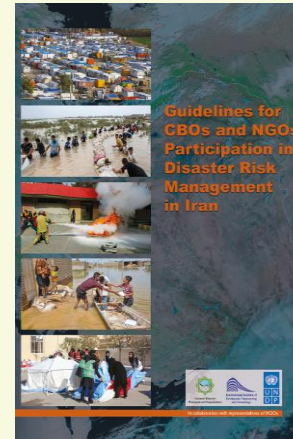
- To undertake research and development in main fields of earthquake risk mitigation and management to contribute to better understanding of the risk posed by earthquakes (addressing risk informed development)
- Assistance to the Governments in the design of policies mitigating disaster risk and impact (Risk Governance)



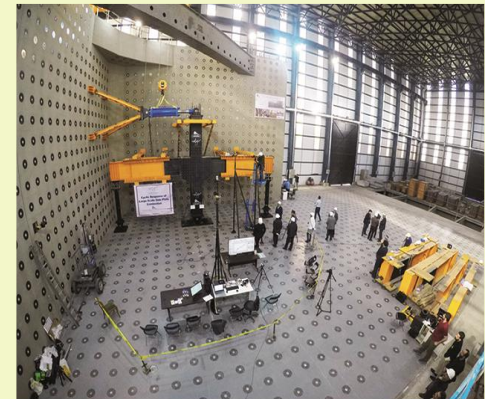
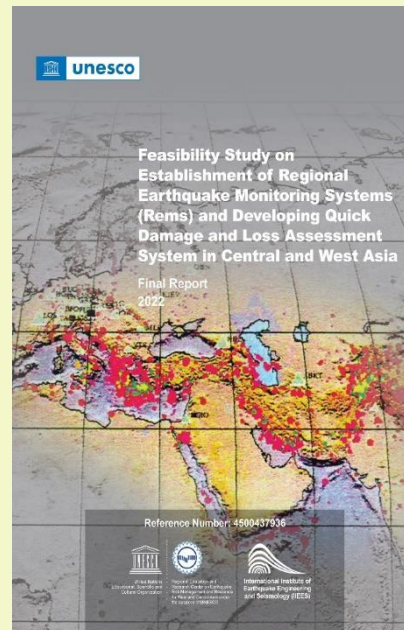
Promote education and training to provide transfer of knowledge in the area of earthquake risk management at different levels

Promote a culture of risk prevention and community awareness through organization of workshops, seminars, drills,

- Regional short-term courses
- Graduate degree programs
- Educational materials for special groups
- Organizing drills and practices



- Support development, implementation and improvement of technical regulations, standards and guidelines in the field of DRR
- Conduct research and development in advanced methods, techniques and tools for earthquake loss assessment, rapid response, decision support, etc.



Strengthening the regional collaborations and participate in regional networks on DRRM

- Facilitating collaboration between DRRM stakeholders, research centers, UN agencies, etc.;
- Exchange of knowledge and practices on DRRM with other countries in the region and worldwide



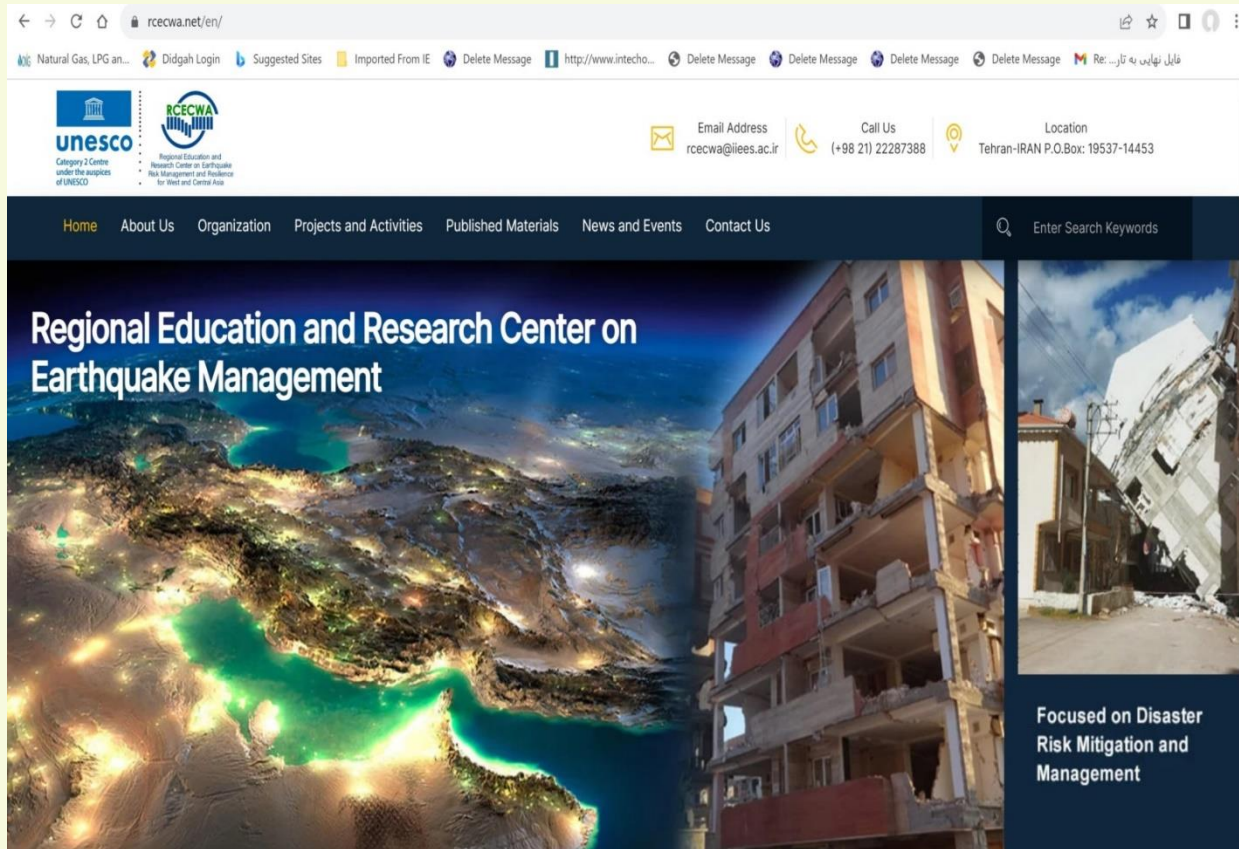
The First Regional Virtual Workshop on
Earthquake Monitoring and Quick Damage and Loss Assessment
Systems in Central and West Asia
Tuesday, October 26, 2021

Final Program

Time (GMT)	Session	Presenter	Country
06:30-06:50	Opening Remarks	International Institute of Earthquake Engineering and Seismology	Iran
06:50-07:10	Earthquake Monitoring: A review on existing capacities and challenges	Cyprus Geological Survey	Cyprus
07:10-07:30	Open discussion	National Centre for Geophysics	Lebanon
07:30-07:50	Coffee Break		
07:50-08:30	Earthquake Quick Damage and Loss Assessment: A review on existing capacities and challenges	Gebze Technical University	Turkey
08:30-09:00	Open discussion	International Institute of Earthquake Engineering and Seismology	Iran
09:00-09:20	Earthquake Quick Damage and Loss Assessment: A review on existing capacities and challenges	Jordan University of Science and Technology	Jordan
09:20-09:40	Open discussion	NED University of Engineering & Technology	Pakistan
09:40-10:10	Open discussion	National University of Architecture and Construction of Armenia	Armenia
10:10-10:30	Open discussion	Cyprus University of Technology & Frederick University	Cyprus
10:30-11:00	Open discussion		
11:00-11:30	Closing remarks		

Logos of participating organizations: GEBZE, CNG, Cyprus University of Technology, FREDERICK UNIVERSITY, UNESCO, RCECWA, and others.

www.rcecwa.net



Thanks for your attention